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## **REMARKS**

This amendment is in response to the Office Action of September 27, 2006. In the Office Action, the Examiner allowed claims 5-23, and rejected claims 1-4, 24 and 25.

The Examiner first rejected claims 1-4 and 24 under 35 U.S.C. 102(b) as being anticipated by *Banks* '290. In order to make this rejection the Examiner takes the position that there is "frictional contact" between the dampening elements 90, 96 (96 should be 91) and the element 92. In effect, the Examiner takes the position that any contact between two elements constitutes "frictional contact." Applicant respectfully disagrees and asserts that in order for contact to be *frictional* there must be some relative sliding movement between the dampening element and the pressing surface.

Websters defines friction as "the rubbing of one body against another" or "in mechanics, the resistance to motion of two moving objects or surfaces that touch." Compression is not friction; the pressing surface of the element 92 and either of the dampening elements 90, 91 of Banks '290 have no relative sliding or rubbing movement, they move together as the dampening element 90 or 91 compresses.

Applicant has amended claim 1 to more particularly set forth the sliding nature of friction as a mechanism for arresting movement: "said second link having a pressing surface that slides against said dampening element as said second link pivots in said second rotary direction to progressively frictionally arrest pivoting movement of the second link in the second rotary direction."

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According to the preferred embodiment, the damping element is the dampening block 143 shown in Figure 16. As described in the specification, the dampening block 143 provides a contact surface 154 that is angled to be substantially tangential to the cam surface 148 of the arm 25. Preferably, a center point 156 of a radius 158 of the cam surface, the radius 158 that passes through a midpoint 162 of the contact area of the cam surface 148 with the block 143 (in the position shown in FIGS. 15 and 16), is offset by a distance d with respect to a pivotal axis 29a of the arm 25. This offset provides for a progressive frictional engagement of the cam surface 148 with the block contact surface 154 as the arm rotates clockwise about the axis 29a. In other words, the cam surface 148 slides along or rubs against the block contact surface 154 as the arm rotates. Accordingly, the arm 25 comes to a controlled, frictionally-induced stop instead of substantially compressing the dampening block 143 which would otherwise cause a subsequent counterclockwise rebound or bounce.

Banks '290 discloses resilient buffers 90, 91 that are compressed between a stop means and mounting means by movement of a swing arm, column 2, lines 61-64. In Figure 7, each of the buffers 90, 91 includes a domed surface 95, 96 respectively. This reference does not disclose "said second link having a pressing surface that slides against said dampening element as said second link pivots in said second rotary direction to progressively frictionally arrest pivoting movement of the second link in the second rotary direction."

Because the issue of the difference between a frictional arresting and a

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> mere compression arresting of the pivoting movement of the second link has already been presented as an issue in Amendment A, no new issues are presented herein by merely further clarifying the definition of friction in the context of the claim.

Applicant submits that the 102(b) rejection has been overcome and requests withdrawal of the rejection.

The Examiner next rejected claim 25 under 35 USC 103(a) over Banks '290. Claim 25 should be allowable based on the asserted allowability of claim 1 and also because Banks '290 does not disclose the cam arrangement set forth in claim 25.

The Examiner next indicated that claims 5-23 were allowed. Applicant acknowledges this allowance with appreciation.

Some claims above have been corrected for antecedent clarity.

Applicant submits that all claims are now in condition for allowance.

Respectfully submitted,

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## fretten

psychomalysis.
freu'dian, n. a person who believes in Freud's
theories or uses Freud's methods in psycho-

theories or uses Freud's methods in psycho-analysis.

Freu disardam, n. the theories and practices of Sigmund Freud (1856–1939). Vienness, psychologist, especially in regard to the causes and treatment of neuroses.

Frey, n. (ON. Freyr.) in Norse mythology, the god of the crops, fruitfulness, love, peace, and prosperity.

god of the crops, fruitfulness, love, peace, and prosperity.

Frey'à (fri'), n. in Norse mythology, the goddess of love and beauty, sister of Frey; written also Frea, Freyia, Freyia, Freyia, Freyia, Freyia, Freyia, IL. friabilis, from friare, to rub, crumble, I the quality or state of being friable.

fri'à ble, a. [Fr. friable; L. friabilis, from friare, to rub, crumble.] easily crumbled or pulverized; easily reduced to powder, as pumice.

ized; easily reduced to powder, as pumice.
fri'à ble ness, x. friability.
fri'âr, x. [from OFr. frere; Pr. fraire, frar; It.
frate, from L. fraler, brother.]

1. in the Roman Catholic Church, a member of any of several religious orders, but especially of one of the four mendicant monastic orders known as the Franciscans. Augustinians, Dominicans, and Carmelites.
2. in printing, any part of a page which has not received a proper impression, and hence is gray or indistinct.
3. any of various small American fishes; silversides: a sand smelt

an application for wounds and unders. fr'sr-hind, s. an Australian bird. Tropidorh-ynchus corniculaus, that eats the honey or nectar from flowers and has a naked, feather-less head: also called leatherhead, poor soldier.

etc. frī/ār-ly, a. resembling a friar in manner or cter: monkish.

character; modalan. friar e-cap, w. the wolfsbane, or monkshood. Acondum mopellus, the sepals of which are hooded. In a p-cowl, n. the wake-robin, Arum macu-

Thirist's-crown, n. the Buropean wool thistle, Cnicus criophorus: called also frier's-thistle, frier skate, a sharp-nosed skate, Raio alba.

of Europe. fri'ar's lan'tern, the ignis fatuus or will-o'the-wisp.
fri'ar'e-thle"tle (-this"), n. see friar's-crown.

fri'ar y, a. pertaining to a friar or to a monastery, n. 1, a monastery; a place where friers live.

friers live.

2. a brotherhood of friers.
fri-a'tion, n. the act of crumbling into small pieces. (Obs.)
frib'ble, a. [altered from Pr. frivole, perh. under ethoic influence.] frivolous; trifling; silly.
frib'ble, n. 1. a person who wastes time.
2. any trifling act or thought.

frib'ble, v.i.; fribbled, pt., pp.; fribbling, ppr.

1. to trifle; to waste time or behave in a soolish, frivolous way.

2. to stand or walk unsteadily; to totter.

[Obs.]

frib ble, s.t. to deal with in a trifling manner.

Irib'ble, v.t. to deal with in a trifling manner.
Irib'ble, n. a trifler; a fribble.
Irib'ble, n. a trifler; a fribble.
Irib'bling, a. toolish; trifling; frivolous.
Iri'borg, Iri'borgh (-būrg), n. [AS. frith-borh, lit., peace pledge; frith. peace, and borh, pledge,] same as frankpledge.
Iricin-deau' (-dō'), n.; pl. Iri-can-deaux' (-dōz'), [Fr.] a thick slice of veal or other meat, roasted or stewed and served with a sauce: also written fricando.
Iricin-delle', frig. an. del', n. [Fr.] meat, eggs, spices, etc. rolled into balls and boiled or fried. Iricinese', n. [Fr., properly f. pp. of fricaster, to cut up and fry] meat cut into pieces, stewed or fried, and served in a sauce of its own diavy.

fric'kle, n. a bushel basket. (Öbs.)
fric'tlon, n. [Fr. friction; L. frictio, from fricer, to rub.]
1. the rubbing of one body against another,
2. disagreement or conflict because of differences of opinion, temperament, etc.
3. in mechanics, the resistance to motion of two moving objects or surfaces that touch.
4. in medicine, the rubbing of the body so as to stimulate the circulation.
angle of friction; the maximum angle of an inclined plane on which a body will rest without sliding down.
coefficient of friction; the ratio between the force necessary to move one of any two sur-

force necessary to move one of any two surfaces horizontally over the other, and the pressure between the two surfaces: the coefficient of friction for oak and cast-iron is 38:100,

a brake operating by friction.

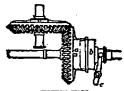
3. any of various small American fishes; silversides; a sand smelt.

4. the friarbird, or leatherhead.

5. the angler, Lophitus piscatorius. [Ir.] friar's balsam; an alcoholic solution of bensoin, styrax, tolu balsam, and aloes, used as an application for wounds and ulcers. [4] frierly the force of the recoil.

frighting the friends of the recoil. frig'tion clutch, in machinery, a clutch, op-erated by friction, used for connecting ma-chines which need to be frequently engaged and disengaged or which are subject to sud-den variations of resistance.

frig'tion com'pound, same as friction pow-



fric'tion com'pound, same as friction pouder.
frig'tion cones, in machinery, a slip coupling, consisting of two cones ab of which the mea is formed on the back of the driving wheel. loose on the driving shaft, and the other b forms part of a sliding block (attached to the shaft by a sunk feather) and fits accurately into the interior of that formed on the back of the wheel. The sliding block can be thrown in and out of gear in the ordinary way, by means of a fork c, and the transmission of motion depends on the friction of the two comical surfaces. If the load on the machine, which is driven by the second shaft, is suddenly changed, the adhesion between the surfaces of the comes allows them to slip, and thus breakage is avoided.
friction gear, see frictional gearing under

friction gear, see frictional gearing under frictional.

friction ham'mer, a hammer lifted by the friction of revolving rollers.

fric'tion-less, a, having or producing no fricfric'tion ma chine', a machine which generates frictional electricity.

fric'tion match, a match that lights by fric-

fric'tion më'tër, a device for estimating fric-tion in machinery, as affected by different lubricants.

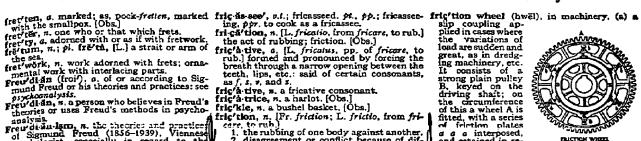
fric'tion pow'der, a compound, as of anti-mony and chlorate of potash, that is easily ignited by friction.

ighted by interest, a device for firing cannon by the friction of a rough wire and friction powder in a tube: called also friction tube.

fric'tion tape, an adhesive tape for insulating exposed electrical wires: also, electric tape or insulating tope.

frig'tion tube, a friction primer.

friendly



great, as in dredging machinery, etc. It consists of a strong plain pulley B, keyed on the driving shait; on the creumference of this a wheel A is fitted, with a series of feletion plates a a interposed, and retained in recesses formed in the eye of the wheel. Behind each of these plates a setscrew b is inserted, which bears against the back of the plate and can be tightened to regulate the degree of friction required for the ordinary work; should the pressure on the circumference of the wheel A exceed this, the plates slide upon the circumference of the wheel A exceed this, the plates slide upon the circumference of the wheel itself romains stationary; (b) one of two simple wheels or cylimders intended to assist in diminishing the friction of a



ders intended to assist in diminishing raicross werns the friction of a horizontal axis. The wheels are simple cylinders a o. carried on parallel and independent axes b b. They are arranged so as to overlap pair and pair at each end of the main axis c, which rests in the angles thus formed by the circumferences. The axis, instead of sliding on a fixed surface, as in ordinary cases, carries round the circumferences of the wheels on which it is supported with the same velocity as it possesses itself, and in consequence the friction of the system is proportionally lessented.

inction of the system is proportionally lessened.

Friday, n. [ME. fridai; AS. frigedze, lit., day
of the goddess frig, wife of Wodan, transl. L.
Veneris dies, Venus' day.]

1. the sixth day of the week.
2. the devoted servant of Robinson Crusoe.
3. a faithful follower or helper: usually man
(or girl) Friday.

fridge (frij), v.i. [AS. frician, to dance.] to
fidget; to frisk about hastily. [Obs.]

frid'stole, n. same as frithstool fried, t. past tense and past participle of

fry,
fried'cake, n. a small cake fried in deep fat;
doughnut or cruller.
friend (frend), n. [ME. frend, freend; AS.
freend, property ppr. of freen, freegan, to
love.]

1. a person whom one knows a sense in the

love.]

1. a person whom one knows well and is fond of; intimate associate; close acquaintance; applied loosely to any associate or acquaintance, or, as a term of address, even to a stranger.

2. a person on the same side in a struggle; ally: opposed to foe.

3. a tavorer; a supporter or sympathizer; as, a friend to commerce; a friend to poetry.

4. a lover. [Colleq.]

5. [F-] a member of the Society of Friends; a Ouaker.

a friend of court: a person in an influence.

a Quaker.
a friend at court; a person in an influential position who is friendly toward one and able to help him.
Society of Friends; a Christian religious sect founded in England in 1650 by George Fox: the Friends have no formal creed, rites, liturgy, or priesthood, reject violence in human relations, including war, and accord women equal status with men.
lo be friends with; to be a friend of, to make friends with; to become a triend of.

-associate, companion, acquaints Syn. Syn.—associate, companion, acquamante, familiar, ally, chum, messmate, coadjutor, confidant, adherent.

friend, v.l.; friended, pl., pp.; friending, ppr. to favor; to befriend; to support or aid. [Rare.]

friend/less, a. without friends.

friend'like, a like a friend.

friend'like, a like a friend.

friend'likesa, n. 1. the condition or quality
of being friendly; good will.

2 exercise of benevolence or kindness.

friend'ly, a.; comp. friendlier; superl. friendliest, 1. having the disposition of a friend;

Ose, bull, brute, turn, up; cry, myth; cat, machine, ace, church, chord; gem, afiger, (Pr.) bon, as; this, thin; azure